	Application No. Applicant(s)		
Notice of Allowability	10/646,927	CHEN ET AL.	
	Examiner	Art Unit	
	Kianni C. Kaveh	2883	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT IN of the Office or upon petition by the applicant. See 37 CFR 1.37	pears on the cover sheet wi S (OR REMAINS) CLOSED in 5) or other appropriate commit RIGHTS. This application is s	th the correspondence address this application. If not included unication will be mailed in due control to the	d ourse. THIS
1. This communication is responsive to 4/28/05 & 7/6/05.			
2. The allowed claim(s) is/are 1-16,21 and 22.			
3. \boxtimes The drawings filed on <u>28 April 2005</u> are accepted by the	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be substituted in NFORMAL PATENT APPLICATION (PTO-152) which gire. (a) including changes required by the Notice of Draftspeen 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 7. DEPOSIT OF and/or INFORMATION about the deposition of the state of the content of	we been received. we been received in Application of the communication to file MENT of this application. mitted. Note the attached EXA ves reason(s) why the oath or ust be submitted. rson's Patent Drawing Review r's Amendment / Comment or 1.84(c)) should be written on the the header according to 37 CF	on Nod in this national stage application as reply complying with the requal AMINER'S AMENDMENT or NO declaration is deficient. If (PTO-948) attached in the Office action of the drawings in the front (not the R 1.121(d).	uirements OTICE OF
attached Examiner's comment regarding REQUIREMENT			ote the
Attachment(s)			
1. Notice of References Cited (PTO-892)		formal Patent Application (PTO	·152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB. Paper No./Mail Date 	/08), 7. ⊠ Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allow	rance
of Biological Material	9.	_•	
Kaveh Kin	Mni Au28	83	

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

Primus Patent Examin

Part of Paper No./Mail Date 10

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Applicant's canceling of claims 17-20 in the amendment/response submitted on 4/28/05 is acknowledged.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with MR. Troxell on July 6, 2005 in order to make the case allowed.

Please cancel claim 23

Reason for Allowance

Claims 1-16 and 21-22 are allowed for the following reasons:

The instant application is deemed to be directed to a nonobvious improvement over the invention patented in Pat. No. Mao et al. (US 2004/0223204).

Claims 1-16 are allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein the set of suspended springs has a thickness that is less than a thickness of each of the set of movable comb finger electrodes and the set of stationary comb finger electrodes in a perpendicular out-of-plane direction to said substrate of the device in combination with the rest of the

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limitations of the base claim. Claims depend on claim and therefore they are also allowed.

Claim 21 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein the grip structure formed on the substrate of said micro-optical device to clamp said shuttle beam is via the friction force forming at the contact interface of the clamped location between grip structure and shuttle beam; thereby said micro-optical device maintains its status at certain states in an analog controllable manner without electrical power consumption when said clip type latch is used to clamp said shuttle beam in combination with the rest of the limitations of the base claim.

Claim 22 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein the grip structure formed on the substrate of said micro-optical device to clamp said shuttle beam is via the electrostatic; force forming between the gap between two side electrodes of grip structure when the two electrodes attract to each other, and come to contact with shuttle beam, where the electrodes of grip arm are coated with insulating materials and isolated from the shuttle beam; thereby said micro-optical device maintains its status at certain states in an analog controllable manner without electrical power consumption when said clip type latch is used to clamp said shuttle beam in combination with the rest of the limitations of the base claim

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Any comments considered necessary by applicant must be submitted no later than the

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payment of the issue fee and, to avoid processing delays, should preferably accompany

the issue fee. Such submissions should be clearly labeled "Comments on Statement of

Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to K. Cyrus Kianni whose telephone number is (571) 272-2417.

The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 6:00 p.m. If

attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Frank Font, can be reached at (571) 272-2415.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9306 (for formal communications intended for entry)

or:

Hand delivered responses should be brought to Crystal Plaza 4, 2021 South

Clark Place, Arlington, VA., Fourth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be

directed to the Group Receptionist whose telephone number is (703) 308-0956.

K. Cyrus Kianni Patent Examiner Century)

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July 7, 2005